

## D. TRANSITIONING N1-2 TO DIAGNOSTIC/OFF FROM STANDBY WHILE N1-1 IS PRIMARY

1. VERIFY MDM STATES AND MDM IDs

PCS1

Node 1: C&DH: MDM N1-1

PRIMARY NCS MDM Node 1

√STATE - Primary

√MDM ID - N1-1

PCS1

Node 1: C&DH: MDM N1-2

SECONDARY NCS MDM Node 1

√STATE - Standby

√MDM ID - N1-2

### NOTE

If states are not correct, do not execute this procedure.

√**MCC**

2. DISABLE NCS AUTO RETRY

PCS1

Node 1: C&DH: MDM N1-1

PRIMARY NCS MDM Node 1

'Software Control'

sel MDM Utilities

Primary\_NCS\_MDM\_Uilities

√Primary\_NCS\_Auto\_Retry\_Inh - X (Inhibited)

If blank (Enable)

sel Commands

**cmd Prim\_NCS\_Inh\_NCS\_Retry Execute**

√Primary\_NCS\_Auto\_Retry\_Inh - X (Inhibited)

3. COMMAND N1-2 TO DIAGNOSTIC

### NOTE

When MDM N1-2 is commanded to Diagnostic, the following heaters are commanded to their Default State which is Off.

1. PMA 1 Shell Heaters 1B, 2B, 3B, and 5B
2. Node 1 Shell Heaters 1B --- 9B
3. MDM N1-2 Operational Heater
4. MDM N1-1 Survival Heater

PCS1

Node 1: C&DH: MDM N1-2

**SECONDARY NCS MDM Node 1**

'Software Control'

sel MDM FDIR

√Second\_NCS\_Cmd\_Xsitn\_to\_Dgnstc\_Inh - blank (Enable)

If X (Inhibited)

'MDM Major State'

sel Commands

**cmd** N1-2\_MDM\_Cmd\_Xsitn\_Dgnstc\_State\_Arm **Execute**

'Software Control'

sel MDM FDIR

√Second\_NCS\_Cmd\_Xsitn\_to\_Dgnstc\_Inh - blank (Enable)

'MDM Major State:'

sel Commands

**cmd** N1-2\_MDM\_Xsitn\_Dgnstc\_State **Execute**

4. VERIFY N1-2 IS IN DIAGNOSTIC

PCS1

Node 1: C&DH: MDM N1-2

**SECONDARY NCS MDM Node 1**

√Frame Count - static

PCS1

Node 1: C&DH: MDM N1-1

**PRIMARY NCS MDM Node 1**

'Software Control'

sel Transmit Mode Code

**Primary\_NCS\_Transmit\_Mode\_Code**

sel Primary NCS Xmt Mode Code Commands

**cmd** Xmt\_Stat\_Word\_Tmplt

enter Bus ID - 2

enter RT Address - 5 **Execute**

√Subsystem Flag Set - X (Set)

If Subsystem Flag Bit is set, N1-2 MDM is in Diagnostic State and is ready to accept diagnostic commands.

If transitioning N1-2 to Diagnostic >>  
If powering off N1-2, go to step 5.

5. POWERING OFF N1-2 MDM

NOTE

When MDM N1-2 is unpowered, the N1-2 Survival Heater is required to maintain the MDM within temperature limits.

PCS1

Node 1: C&DH: MDM N1-2

SECONDARY NCS MDM Node 1

'N1-2 Survival'

√MDM N1-2 Surv Htr Availbty - Ena Ops

√MDM N1-2 Surv Htr Health Stat - Operational

SECONDARY NCS MDM Node 1

'RPCM \_N1RS2\_C'

sel RPC 13 (Nod1\_2\_MDM)

RPCM \_N1RS2\_C\_RPC\_13 Detail

sel Commands

**cmd** Open **Execute**

√Position - Op